

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A process for producing a synthetic middle distillate having a Cetane number higher than 70, the process including:

- (a) separating the products obtained from synthesis gas via a FT synthesis reaction into one or more heavier fraction and one-or-more lighter fraction, wherein the one or more heavier fraction boils above 270°C and the one lighter fraction boils in the range of C₅ to 270°C;
- (b) catalytically processing the heavier fraction under conditions which yield one or more middle distillate;
- (c) separating the middle distillate product of step (b) from a light product fraction and a heavier product fraction which are also produced in step (b); and
- (d) blending the middle distillate fraction obtained in step (c) with at least a portion of the one-or-more lighter fraction of step (a), or products thereof; and
- (e) hydrotreating at least some of the one-or-more light fraction of step (a), or products thereof, prior to step (d).

2. (Original) A process for producing a synthetic middle distillate as claimed in claim 1, wherein the catalytic processing of step (b) is a hydroprocessing step.

3. (Original) A process for producing a synthetic middle distillate as claimed in claim 2, wherein the catalytic processing of step (b) is a hydrocracking step.

4. (Currently Amended) A process for producing a synthetic middle distillate as claimed in claim 1, including one or more additional step of fractonating at least some of the one or more lighter fraction of step (a), or products thereof, prior to step (d).

5-8. (Canceled)

9. (Currently amended) A process for producing a synthetic middle distillate as claimed in [[7]]1, wherein the one or more catalytically processed heavier fraction of step (b) has a isoparaffins to n-paraffins mass ratio of between 4:1 and 14:1.

10. (Currently amended) A process for producing a synthetic middle distillate as claimed in [[8]]1, wherein the one or more catalytically processed heavier fraction of step (b) has a isoparaffins to n-paraffins mass ratio of 21:2.

11. (Original) A process for producing a synthetic middle distillate as claimed in claim 1, wherein the one or more heavier fraction of step (a) boils above about 300°C.

12. (Canceled)

13. (Currently Amended) A process for producing a synthetic middle distillate as claimed in claim [[12]]1, wherein the one ~~or more~~ lighter fraction boils in the range 160°C to 270°C.

14. (Currently Amended) A process for producing a synthetic middle distillate as claimed in claim [[12]]1, wherein the one or more lighter fraction has an isoparaffins to n-paraffins mass ratio of between 1:2 and 4:1.

15. (Original) A process for producing a synthetic middle distillate as claimed in claim 14, wherein the one or more lighter fraction has an isoparaffins to n-paraffins mass ratio of 2.2:1.

16. (Original) A process for producing a synthetic middle distillate as claimed in claim 1, wherein the product of step (d) boils in the range 100°C to 400°C.

17. (Original) A process for producing a synthetic middle distillate as claimed in claim 1, wherein the product of step (d) boils in the range 160°C to 370°C.

18. (Original) A process for producing a synthetic middle distillate as claimed in claim 1, wherein the product of step (d) is a diesel fuel which has a CFPP below -20°C.

19. (Currently Amended) A process for producing a synthetic middle distillate as claimed in claim 18, wherein the product of step (d) is obtained by mixing the middle distillate fraction obtained in step (c) with at least a portion of the ~~one-or-more~~ lighter fraction of step (a), or products thereof, in a volume ratio selected to provide a diesel fuel having a required specification.

20. (Currently Amended) A process for producing a synthetic middle distillate as claimed in claim 19, wherein the product of step (d) is obtained by mixing the middle distillate fraction obtained in step (c) with at least a portion of the ~~one-or-more~~ lighter fraction of step (a), or products thereof, in a volume ratio of between 1:1 and 9:1.

21. (Currently Amended) A process for producing a synthetic middle distillate as claimed in claim 20, wherein the product of step (d) is obtained by mixing the middle distillate fraction obtained in step (c) with at least a portion of the ~~one-or-more~~ lighter fraction of step (a), or products thereof, in a volume ratio of between 2:1 and 6:1.

22. (Currently Amended) A process for producing a synthetic middle distillate as claimed in claim 19, wherein the product of step (d) is obtained by mixing the middle distillate fraction obtained in step (c) with at least a portion of the ~~one-or-more~~ lighter fraction of step (a), or products thereof, in a volume ratio of 84:16.